

LIGHT - REFLECTION & REFRACTION

Reflection of Light

Reflection of light is the process of bouncing back light rays when it strikes the smooth and shiny reflecting surface.

- **Laws of reflection of light**
 - angle of incidence = angle of reflection
 - The incident ray, the normal to the mirror at the point of incidence and the reflected ray, all lie in the same plane.
- **Properties of Image formed by Plane Mirror**
 - Virtual, erect, and laterally inverted.
 - The size of the image is equal to that of the object, and the image appears as far behind the mirror as the object is in front of it



Spherical Mirrors

A spherical mirror whose reflecting surface is curved outwards is called a convex mirror, while one curved inwards is a concave mirror.

Some important terms related to spherical mirrors

- **Pole(P):** It is the centre of the reflecting surface of a spherical mirror and it lies on the surface of the mirror.
- **Aperture:** The diameter of the reflecting surface
- **Centre of Curvature(C):** The centre of the spherical surface of which the mirror is a part. It lies outside its reflecting surface and in concave mirror lies in front of it.
- **Radius of Curvature(R):** It is the radius of spherical mirror of which the reflecting surface is a part of
- **Principal Axis:** It is the line passing through the center of the mirror that is exactly perpendicular to the surface of the mirror.
- **Focal length(f):** It is the distance b/w pole and focus point of the mirror. $R = 2f$



Image formation by Spherical Mirrors

- Can form real or virtual images depending on the position of the object relative to the mirror.
- It can be highly diminished, diminished, same size, enlarged, or highly enlarged.
- Following ray diagrams are formed when a ray of light passes through different points.

	Ray parallel to principle axis	Ray passing through principle focus	Ray passing through Center of Curvature	Ray incident obliquely to the principal axis
Concave Mirror	<p>Ray pass through the principal focus</p>	<p>Ray emerges parallel to principle axis</p>	<p>Ray is reflected back along the same path</p>	<p>Ray is Reflected obliquely making equal angles</p>
Convex Mirror	<p>Ray appear to diverge from the principle focus</p>	<p>Ray emerges parallel to principle axis</p>	<p>Ray is reflected back along the same path</p>	<p>Ray is Reflected obliquely making equal angles</p>

Light Reflection And Mirrors Answers

Ying Liu



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